

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/086872 A1**

(51) International Patent Classification<sup>7</sup>: A23B 7/154, 7/157, 7/148, A23L 3/3418, 3/3508, 3/358

(74) Agents: OYEN, Gerald, O., S. et al.; Oyen Wiggs Green & Mutala, #480 - The Station, 601 West Cordova Street, Vancouver, British Columbia V6B 1G1 (CA).

(21) International Application Number:  
PCT/CA2004/000483

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KF, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2,424,200 31 March 2003 (31.03.2003) CA

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): FRESHXTEND TECHNOLOGIES CORP. [CA/CA]; 104-334 East Keant Avenue South, Vancouver, British Columbia V5X 4N6 (CA).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): LIDSTER, Perry, D. [CA/CA]; 42326 Elizabeth Avenue, Yarrow, British Columbia V2R 5C9 (CA). POWRIE, William, Duncan [CA/CA]; 505 Ventura Crescent, North Vancouver, British Columbia V7N 3G8 (CA). O'DONOVAN, Miriam [CA/CA]; 766 William Avenue, North Vancouver, British Columbia V7K 1Z5 (CA). LEUNG, Cheong, Kit [CA/CA]; 1371 East 61st Avenue, Vancouver, British Columbia V5X 2C8 (CA).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 2004/086872 A1

---

(54) Title: COMPOSITIONS AND METHODS FOR PRESERVING CUT APPLES

(57) Abstract: This invention is a novel composition for preserving fresh cut apples comprising a mixture of ascorbic acid, and one or more of calcium chloride, calcium carbonate, magnesium chloride, calcium hydroxide, and optionally, citric acid or sodium citrate. This invention also relates to a method of preserving fresh cut apples by treating the cut apples with the novel composition dissolved in water and packaging the treated fresh cut apples in a modified atmosphere package.